

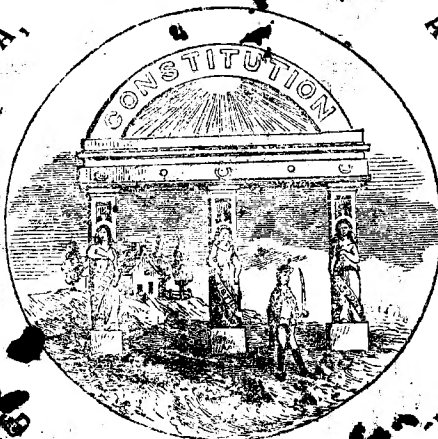


GRIER'S SOUTHERN

# ALMANAC

FOR THE STATES OF

SOUTH CAROLINA,  
MISSISSIPPI,  
GEORGIA,



ALABAMA,  
LOUISIANA,  
TENNESSEE

FOR THE YEAR OF OUR LORD

# 1863

Being the Third and Bissextile or Leap Year, and the Third  
of Southern Independence (until 4th of July,)  
the Eighty-Seventh of the Independence of  
the United States.

Calculated for the Latitude and Meridian of AUGUSTA, GA.,

**AND WILL SERVE FOR THE ADJACENT STATES.**

By T. P. ASHMORE, OF AMERICUS, GA.

Published for the Trade by

F. H. SINGER, ..... AUGUSTA, GA.

**JAS. McPHERSON & CO.,**

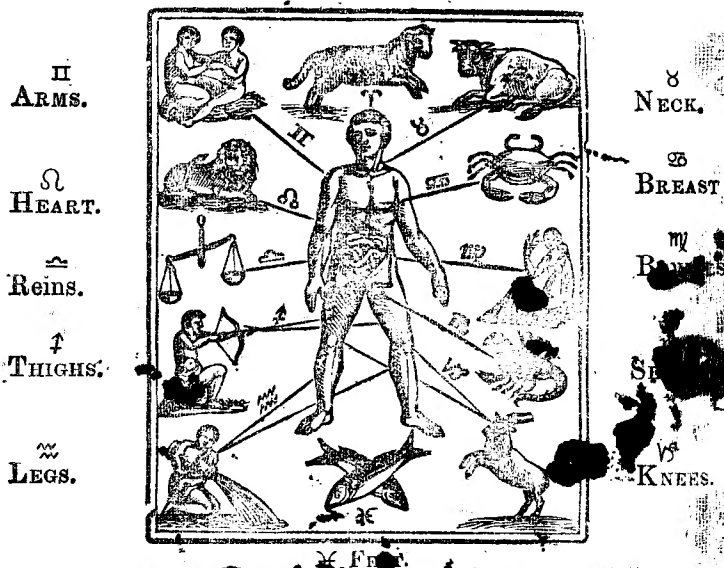
**BOOKSELLERS & STATIONERS,**

**ATLANTA, GA.**

### SIGNS OF THE ZODIAC AND INFLUENCE OF THE MOON

THE MOON is supposed by some to have a special influence upon different parts of the bodies of men and animals as it passes through the signs of the Zodiac. The following cut is inserted for the sake of those who believe in this imaginary influence, and is intended to represent the part of the body affected by the Moon when it is in a particular sign of the Zodiac. By finding the Moon's place in the proper column of the calendar pages and comparing it with this cut, the particular part which is supposed to be affected, will be at once seen. Thus, when the Moon is in Aries (♈), it is supposed to influence the head and face; when in Capricornus (♐) the knees, etc.

♈ Governs the FACE and HEAD.



### NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

♈ Aries, the Ram. ♉ Taurus, the Bull. ♊ Gemini, the Twins. ♋ Cancer, the Crab. ♌ Leo, the Lion. ♍ Virgo, the Virgin. ♎ Libra, the Balance. ♏ Scorpio, the Scorpion. ♐ Sagittarius, the Archer. ♑ Capricornus, the Goat. ♒ Aquarius, the Waterman. ♓ Pisces, the Fishes.

### CHRONOLOGICAL CYCLES.

Dominical Letter, .....	D.	Solar Cycle, .....	21
Golden Number, .....	2	Roman Indiction, .....	6
Epact, (Moon's age), Jan. 1st.....	11	Julian Period.....	6576

### MOVEABLE FEASTS OF THE CHURCH.

Septuagesima Sunday	Feb. 1	Rogation Sunday,	May 1 <sup>st</sup>
Quin. or Shrove Sunday,	Feb. 15	Ascension Day,	May 1 <sup>st</sup>
Ash-Wednesday,	Feb. 18	Whit-Sunday,	May 3 <sup>rd</sup>
Palm Sunday,	Mar. 29	Advent Sunday	Nov 29
Easter Sunday.	April 5		

**ECLIPSES FOR 1863** > diameter of a

The first will be of the Sun, on the 17th of May, at 7<sup>th</sup> and with, invisible in America.

The second will be a total Eclipse of the Moon, 1<sup>st</sup> day of June, partially visible; and is calculated to apparent time, as follows :

	DAY.	H.R.	MIN.	SEC.	
The Eclipse begins on June	1	4	17	38.	} P. M.
Beginning of total darkness	"	5	24	36.	
End of total darkness	"	6	31	18.	
The Moon will rise at Augusta	"	7	1	0,	
with 7.2-10 digits eclipsed on her Western limb.					
The Eclipse will end	"	7	38	16.	} P. M.
Duration of visibility	"	0	37	16.	

The third will be of the Sun, on the 11th of Nov., at 2h. 36m. A. M., invisible in America.

The fourth will be of the Moon, on the 25th day of November, visible and nearly total throughout the continent of America, and is calculated to apparent time, as follows :

	DAY.	H.R.	MIN.	SEC.	
Beginning at Augusta, Ga.,	Nov. 25	1	57	14.	} A. M.
Middle of Eclipse	"	3	37	53.	
Ecliptic Opposition	"	3	43	21.	
End of Eclipse	"	5	18	32.	
Duration	"	3	21	18.	

Digits eclipsed 11 1-2, on the Moon's north limb.

At the greatest obscuration, about 1-24 part of the Moon's diameter, will remain uneclipsed.

**EQUINOXES AND SOLSTICES.**

Vernal Equinox, .....	(Spring begins) .....	March 21st.
Summer Solstice, .....	(Summer begins) .....	June 21st.
Autumnal Equinox, .....	(Autumn begins) .....	Sept. 23d.
Winter Solstice, .....	(Winter begins) .....	Dec. 21st.

**ASPECTS OF THE PLANETS.**

The Planet Venus will be Evening Star till September 29th, then Morning Star till the end of the year.

Jupiter will be in opposition with the Sun, on the 12th of April, when he will shine with his greatest brilliancy.

Saturn will be in opposition with the Sun, on the 20th of March, when he will be brightest.

Mars will be too near the Sun to afford any favorable opportunity of viewing him this year.

**THE TWELVE SIGNS OF THE ZODIAC.**

Spring Signs, .....	1. ♈ Pisces.	2. ♈ Aries.	3. ♉ Taurus
Summer Signs, .....	4. ♊ Gemini.	5. ♋ Cancer.	6. ♌ Leo.
Autumn Signs, .....	7. ♍ Virgo.	8. ♎ Libra.	9. ♏ Scorpio.
Winter Signs, .....	10. ♐ Sagittarius.	11. ♑ Capricornus.	12. ♒ Aquarius.

The first six are called Northern Signs, and the other six Southern Signs

## PRINCIPAL BODIES IN THE SOLAR SYSTEM.

NAMES.	Mean Diameter.	Mean Distance from the Sun.	Revolu- tion a'd the Sun.	Revolu- tion on Axis.	Velocity per m. in orbit.	Size—the Earth being 1.	Density— Earth b'ng 1	Light, Earth b'ng 1
	Miles.	Miles.	yrs. days	d. h. M.	Miles.			
THE SUN..	883,246	.....	.....	25 9 59	.....	1,412,921,101	0.252	Infra-
Mercury...	3,224	36,814,000	88	1 0 5	1,827	0,053	1.120	6.680
Venus....	7,687	68,787,000	224	23 21	1,338	0,909	0.923	1.911
The Earth	7,912	95,103,000	1	23 56	1,138	1,000	1.000	1.000
The Moon	2,180	95,103,000	1	27 7 43	38	0,020	0.615	1.006
Mars.....	4,189	144,908,000	1 321	1 0 37	921	0,125	0.948	0.431
Jupiter...	80,170	494,797,000	11 215	9 56	496	1,456,000	0.238	0.037
Saturn...	79,042	907,168,000	29 167	10 29	368	771,000	0.138	0.011
Uranus...	35,112	1,824,390,000	84 6	1 13 33	259	89,000	0.242	0.003
Neptune..	41,500	2,854,099,000	164 226	.....	208	143,000	0.140	0.001

NOTE.—There are more than fifty small Planets or Asteroids, between the orbit of Mars and Jupiter.

## MEAN AND APPARENT TIME.

MEAN TIME is the time indicated by a well-regulated clock or watch running without variation, so as to make the day, or 24 hours, equal to the Mean Time at which the Sun comes to the meridian during the year. Apparent Time is the time which makes the Sun come to the meridian every day at 12 o'clock. On account of the ellipticity of the earth's orbit, and its inclination to the equator, the sun does not always come to the meridian in exactly the same time; and hence, Apparent Time is irregular, and either gradually falls behind Mean Time, or gains on it, sometimes to the amount of more than sixteen minutes. When the Sun comes to the meridian earlier than the Mean Time, it is said to be fast; but when it comes later, it is said to be slow; and the amount by which Apparent Time differs from Mean Time is called the Equation of Time. In order to set a timepiece according to Mean Time, it is necessary to have a dial, or noon mark; and allowance must be made for the Equation of Time. This Almanac is in Mean Time.

## EXPLANATION OF THE SIGNS USED IN THIS ALMANAC.

☉ New Moon, and Moon generally, ☾ First Quarter, ☾ Full Moon, ☾ Last Quarter ☾ Moon's ascending node, or dragon's head. ☾ Moon's descending node, or dragon's tail. IN APOGEE—Moon farthest from the Earth IN PERIGEE—Moon nearest the earth. ☾ Highest—Moon farthest North ☾ Lowest—Moon farthest South. ♄ Saturn. ♀ Venus ☿ near together. ♃ Jupiter. ☿ Mercury. ☐ 90 deg. apart. ☿ Opposition or 180 degrees apart ☿ Mars. 7\* Stars. ☼ Sun. ☿ Herschel. Complete Court Calendars, &c. for the States of Alabama and Tennessee, will be inserted in orders of 10 gross and upwards from dealers ordering for circulation in those states respectively.

NOTE. Any person solving ten of the Problems contained in this Almanac, and sending to me at Americus, Ga., by the 15th of May next, the correct answers to the same, shall have the same acknowledged in the Almanac for 1864.

A few original problems for 1864, are solicited. They must be thoroughly solved and explained, in order to meet with attention

T. P. ASHMORE.

1st Month,]

JANUARY, 1863.

[31 Days

## MOON'S PHASES.

	D.	H.	M.	
Full Moon,	4	9	46	eve.
Last Quarter	12	1	43	eve.
New Moon,	19	9	54	mo.
First Quarter,	26	3	45	eve.

## PROBLEMS.

1. What must be the diameter of a balloon, in order that it may ascend with four persons, weighing each 160 pounds, and the balloon and bag of sand weighing 60 pounds.

D.	D	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon	High tide Savannah	
of	of		rises	sets		ri & sts		
M.	W.		H.M.	H.M.		H. M.	H. M	
1	Thur	New Year's Day. <i>Cold</i>	7	44	56	Π	4 5	5 55
2	Frid	☼ in Perigee <i>and</i>	7	34	57		5 0	7 10
3	Satur	☾ highest <i>chilly weather</i>	7	34	57	☾	5 50	8 8
4	S.	Princeton Battle, 1777.	7	34	57		rises.	9 0
5	Mon	- <i>Cloudy and</i>	7	24	58	Ω	6 15	9 45
6	Tues	Epiphany. <i>cold.</i>	7	24	58		7 8	10 26
7	Wed	-	7	24	58	⊖	8 20	11 2
8	Thur	Bat. N. Orleans, 1815.	7	14	59		9 13	11 38
9	Frid	<i>Fair and frosty.</i>	7	14	59		10 18	E. 14
10	Satur	Aldebaran sou 9h 8m.	7	05	0	⊥	11 25	0 47
11	S.	Ala. & Fla. seced., '61.	7	05	0		morn	1 24
12	Mon	- <i>Now more pleasant.</i>	6	59	5	⊖	0 30	2 2
13	Tues	Richard II. killed, 1490.	6	59	5	1	1 40	2 46
14	Wed	<i>N. E. Winds</i>	6	58	5	2	2 50	3 47
15	Thur	<i>and any</i>	6	58	5	2	3 46	5 0
16	Frid	☾ lowest <i>ark</i>	6	57	5	3	4 46	6 21
17	Satur	Bat. Cowpens, 178	6	57	5	3	5 30	7 30
18	S.	<i>flying clouds.</i>	6	56	5	4	6 31	8 16
19	Mon	Capella sou. 9h. 11m.	6	55	5	5	sets.	9 2
20	Tues	☼ enters ♍ Geo sec '61,	6	55	5	5	6 30	9 45
21	Wed	<i>High winds from</i>	6	54	5	6	7 34	10 25
22	Thur	Rigel sou. 8h. 48m.	6	54	5	6	8 25	11 5
23	Frid	<i>N. W. and cold.</i>	6	53	5	7	9 21	11 45
24	Satur	Augusta arsenal tak '61	6	52	5	8	10 10	Morn.
25	S.	<i>Cold and</i>	6	51	5	9	11 8	0 28
26	Mon	Sirius sou. 10h. 16m.	6	51	5	9	8	morn.
27	Tues	<i>Cloudy.</i>	6	50	5	10	0 7	1 59
28	Wed	<i>Perhaps snow</i>	6	49	5	11	1 8	2 57
29	Thur	Prof F. C. Bond died 59.	6	48	5	12	2 2	4 9
30	Frid	☾ highest.	6	48	5	12	2 56	5 34
31	Satur	<i>or sleet.</i>	6	47	5	12	3 06	58

2d Month.]

FEBRUARY, 1863.

[28 Days]

## MOON'S PHASES.

D. H. M

Full Moon 3 4 39 eve.  
 Last Quarter 11 1 51 mo.  
 New Moon 17 9 30 eve.  
 First Quarter 25 9 16 mo.

2. If the mercury in a barometer, at the bottom of a tower, be observed to stand at 30 inches, and, on being carried to the top of it, be observed 29.9 inches, what is the height of the tower?

3 Suppose a piece of marble contains 8 cubic feet, and weighs 1,353 lbs., what is the specific gravity?

D. of M	D. of W	Various Phenomena.	Sun rises H. M.	Sun sets H. M.	MOON'S PLACE.	Moon ri. st. H. M.	High tide Savannah M.
1	S.	Septuagesima S.	6 46	5 14	☾	4 20	8 32
2	Mon.	Purification B. V. Mary.	6 45	5 15		5 15	8 49
3	Tue.	<i>Fair and frosty.</i>	6 44	5 16	☾	5 47	9 32
4	Wed.	[1780	6 44	5 16		rises.	10 09
5	Thu.	Earthquake at Sicily,	6 43	5 17	☾	8 30	10 48
6	Fri.	<i>Damp and</i>	6 42	5 18		9 14	11 14
7	Satu.	Sirius sou. 9h. 25m.	6 41	5 19	☾	10 25	11 46
8	S.	<i>cloudy weather.</i>	6 40	5 20		11 0	12 15
9	Mon.		6 39	5 21	☾	11 30	0 44
10	Tue.	Pro. Gov. Con. Stat. '61.	6 38	5 22		11 59	1 22
11	Wed.	Revolution in Domingo,	6 37	5 23		morn.	2 0
12	Thu.	☾ lowest. [1807.	6 36	5 24	☾	0 36	2 56
13	Fri.	<i>Wind and</i>	6 36	5 24		1 48	4 08
14	Sat.	Valentines <i>cold.</i>	6 35	5 25	☾	2 43	5 20
15	S.	Quinquag. Sun.	6 34	5 26		3 36	6 47
16	Mon.	Melancthon born, 1497.	6 33	5 27		4 50	7 52
17	Tue.	Sirius souths 8h. 50m.	6 32	5 28	☾	sets.	8 37
18	Wed.	Ash Wednesday.	6 31	5 29		7 30	9 22
19	Thu.	Sun enters ☿	6 30	5 30		8 41	10 12
20	Fri.	<i>Much cloudy.</i>	6 29	5 31		9 39	10 44
21	Sat.	<i>weather and</i>	6 28	5 32		10 25	11 27
22	S.	Washington born, 1732.	6 27	5 33	☾	10 49	morn.
23	Mon.	<i>some rain.</i>	6 26	5 34		11 20	0 16
24	Tue.	St. Mathias.	6 25	5 35	☾	11 58	0 54
25	Wed.	<i>Now more pleasant.</i>	6 24	5 36		morn.	1 41
26	Thu.	☾ highest.	6 23	5 37	☾	0 56	2 36
27	Frid.	Procyon south 9h. 3m.	6 22	5 38		1 47	3 49
28	Satu.	<i>at the end of this month.</i>	6 21	5 39	☾	2 36	5 16

[1st Month.]

MARCH, 1863.

[31 Days.]

## MOON'S PHASES.

Full Moon 5 9 21 mo  
 1st Quarter 12 0 15 eve  
 New Moon 19 9 17 mo  
 2nd Quarter 27 3 14 mo

4. The diameter of a balloon is 2,665 feet, what weight is it capable of raising?

5. What is the solidity in inches of several fragments or clear glass, whose weight is 18 ounces?

D.	D.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises	High tide
M.	W.		H.M.	H.M.		H. M.	Savannah.
1	S.	St. David.	6 20	5 40		3 35	6 40
2	Mon	Procyon Sou. 9 h. 48 m.	6 19	5 41	W	4 6	7 43
3	Tues	<i>Fair and frosty.</i>	6 18	5 42		4 44	8 29
4	Wed	Pollux Sou. 8 h. 44 m.	6 17	5 43	A	5 19	9 10
5	Thur	La Place died, 1827.	6 16	5 44		rises	9 43
6	Frid	<i>Cloudy and damp.</i>	6 15	5 45	M	7 7	10 17
7	Satur	Regulus Sou. 10 h. 56 m.	6 14	5 46		8 6	10 46
8	S.	<i>Cold winds.</i>	6 13	5 47		8 53	11 17
9	Mon	Regulus Sou. 10 h. 48 m.	6 12	5 48	F	9 45	11 48
10	Tues	<i>from the N. W.</i>	6 11	5 49		10 37	Ev. 18
11	Wed	lowest.	6 10	5 50	S	11 29	0 59
12	Thur		6 9	5 51		morn.	1 30
13	Frid	discovered 1781.	6 8	5 52	A	0 20	2 19
14	Satur	<i>More mild.</i>	6 7	5 53		1 10	3 24
15	S.	Jackson born, 1767.	6 6	5 54		1 57	4 51
16	Mon	Regulus sou. 10 h. 21 m.	6 5	5 55	M	2 43	6 11
17	Tues	St. Patrick.	6 4	5 56		3 27	7 18
18	Wed	<i>Stormy and</i>	6 3	5 57	F	4 9	8 18
19	Thur	<i>unpleasant weather.</i>	6 2	5 58		sets.	8 53
20	Frid	8  5 rises 5 h. 59 m.	6 1	5 59		7 40	9 35
21	Satur	Days and nights equal.	6 0	6 0	S	8 35	10 21
22	S.	<i>Fair and more</i>	5 59	6 1		9 0	11 4
23	Mon	Regulus sou. 9 h. 58 m.	5 58	6 2	M	10 0	11 51
24	Tues	<i>pleasant.</i>	5 57	6 3		10 45	Morn.
25	Wed	Annunciation B. V. M.	5 56	6 4		11 25	0 34
26	Thur	highest.	5 55	6 5	F	11 59	1 21
27	Frid	<i>Cloudy and</i>	5 54	6 6		morn	2 21
28	Satur	War with Russia, '54.	5 53	6 7	M	0 40	3 29
29	S.	Palm Sun. <i>some rain.</i>	5 52	6 8		1 35	4 54
30	Mon	Regulus sou. 9 h. 26 m.	5 51	6 9	F	2 20	6 11
31	Tues	Calhoun died, 1850.	5 50	6 10		3 45	7 16



1th Month,]

APRIL, 1863.

[30 Days

## MOON'S PHASES.

	D.	H.	M.
Full Moon	3	11	3 eve.
Last Quarter	10	9	14 eve.
New Moon	17	9	47 eve.
First Quarter	25	8	22 eve.

6 A miller has a head of water four feet above the sluice, how high must the water be raised above the opening so that half as much again water may be discharged from the sluice in the same time?

D.	D.	Various Phenomena.	Sun.	Sun.	MOON'S	ri&sts	High tide
of	of		rises	sets	PLACE.		Savannah
M	W		H.M.	H.M.		H. M.	H. P.
1	Wed	Regulus sou. 9h. 18m.	5 49	6 11	☾	4 35	8 4
2	Thur	<i>Pleasant weather.</i>	5 48	6 12		5 2	8 42
3	Frid	Good Friday <i>for</i>	5 47	6 13	☾	rises.	9 16
4	Satur	W. H. Harrison d'd '41.	5 46	6 14		7 0	9 48
5	S	East. Sunday [ <i>planting.</i>	5 45	6 15	☾	7 58	10 19
6	Mon	Easter Monday.	5 44	6 16		8 36	10 48
7	Tues	☾ lowest.	5 43	6 17	☾	9 21	11 20
8	Wed	<i>Rain with Thunder.</i>	5 42	6 18		10 20	11 42
9	Thur	Edward IV. di'd 1483.	5 41	6 19		11 18	E. 27
10	Frid	Bat. of Toulouse, 1814.	5 40	6 20	☾	morn.	1
11	Satur	Pittsburg burned, 1845.	5 39	6 21		0 15	1 57
12	S.	☿ ☼ ♀ rises 6h. 22m.	5 38	6 22	☾	1 21	2 58
13	Mon	Fort Sumter taken, '61.	5 37	6 23		2 26	4 18
14	Tues	Embargo repealed 1814.	5 36	6 24		3 35	5 33
15	Wed	Spica sou. 11h. 39m.	5 35	6 25	☾	4 50	6 43
16	Thur	<i>Warm for this</i>	5 34	6 26		5 52	7 37
17	Frid	Virginia seceded, 1861.	5 33	6 27	☾	sets.	8 29
18	Satur	<i>month.</i>	5 32	6 28		7 30	9 11
19	S.	☼ enters ☿ [near.	5 31	6 29	☾	8 18	9 59
20	Mon	☾ ☼ ♀ at 2h 8m aft. very	5 30	6 30		9 0	10 47
21	Tues	<i>Cloudy and</i>	5 29	6 31		9 42	11 32
22	Wed	☾ highest. <i>windy,</i>	5 28	6 32	☾	10 31	Morn.
23	Thur	St. George.	5 27	6 33		11 14	0 17
24	Frid	Brazil discovered, 1500.	5 26	6 34	☾	11 58	1 5
25	Satu	St. Mark. <i>Fair and</i>	5 25	6 35		morn.	2 1
26	S.	Spica sou. 10h. 56m.	5 24	6 36	☾	0 40	3 2
27	Mon	Arcturus sou. 11h 44m.	5 23	6 37		1 31	4 18
28	Tues	Wolfe killed, 1752.	5 22	6 38	☾	2 22	5 2
29	Wed	<i>pleasant weather.</i>	5 21	6 39		3 11	6 32
30	Thur	Washington inaug. '89.	5 20	6 40	☾	4 0	7 25

[5th Month,]

MAY, 1863.

[31 Days.]

## MOON'S PHASES.

Full Moon 3 9 43 mo.  
 Last Quarter 10 5 10 mo.  
 New Moon 17 11 15 mo.  
 First Quarter 23 11 23 mo.

7 What is the velocity of water issuing from a head of water 5 feet deep?

8. What is the difference between the length of a pendulum, which vibrates half seconds, and one which swings 3 seconds?

D of M	D of W	Various Phenomena.	Sun		MOON'S PLACE.	Moon ri.&sts		High tide Savannah	
			rises H.M.	sets H.M.		H.	M.	H.	M.
1	Frid	St. Philip & St. James.	5 20	6 40		4 52		8 6	
2	Satur	<i>Warm and dry</i>	5 19	6 41	♄	5 46		8 46	
3	S.	Tennessee seceded '61.	5 18	6 42		rises.		9 20	
4	Mon	Robert Grier died, '48.	5 17	6 43		8 0		9 53	
5	Tues	Moon lowest. <i>Damp</i>	5 16	6 44	♃	8 50		10 25	
6	Wed	Humboldt died '59.	5 15	6 45		9 41		10 59	
7	Thur	<i>and much</i>	5 15	6 45	♂	10 36		11 33	
8	Frid	<i>cloudy weather.</i>	5 14	6 46		11 21		E. 9	
9	Satur	Arcturus sou 10h 56m.	5 13	6 47	♋	11 59		0 52	
10	S.	Rogation Sunday.	5 12	6 48		morn.		1 42	
11	Mon	<i>Rain with</i>	5 12	6 48		0 46		2 38	
12	Tues	Antares sou 1h 0m.	5 11	6 49	♌	1 32		3 46	
13	Wed	<i>thunder.</i>	5 10	6 50		2 25		4 59	
14	Thur	Ascension day.	5 9	6 51	♍	3 36		6 4	
15	Frid	<i>Now we may</i>	5 9	6 51		4 41		7 6	
16	Satur.	<i>expect</i>	5 8	6 52		5 58		8 1	
17	S.	Sun eclipsed invisible.	5 7	6 53	♎	sets.		8 51	
18	Mon	<i>a fine growing</i>	5 7	6 53		8 2		9 44	
19	Tues	Moon highest.	5 6	6 54	♏	8 51		10 32	
20	Wed	Sun enters ♐ <i>season.</i>	5 5	6 55		9 40		11 16	
21	Thur	<i>till the end</i>	5 5	6 55	♐	10 36		Morn.	
22	Frid	<i>of this</i>	5 4	6 56		10 53		0 16	
23	Satur	Irish rebellion com. '98.	5 4	6 56	♑	11 31		0 59	
24	S.	Whit Sunday.	5 3	6 57		11 58		1 38	
25	Mon	Whit Monday. <i>month.</i>	5 3	6 57	♒	morn.		2 30	
26	Tues	John Calvin died, 1564.	5 2	6 58		0 52		3 28	
27	Wed	<i>Fair</i>	5 2	6 58		1 47		4 35	
28	Thur	<i>and pleasant.</i>	5 1	6 59	♓	2 35		5 37	
29	Frid	Gen. Putnam died, '90.	5 1	6 59		3 21		6 36	
30	Satur	Alex. Pope died, 1744.	5 0	7 0	♈	4 15		7 31	
31	S.	Trinity Sunday.	5 0	7 0		5 20		8 14	

6th Month.]

JUNE, 1863.

[30 Day]

## MOON'S PHASES.

Full Moon 1 6 1 eve.  
 Last Quarter 13 eve.  
 New Moon 16 1 54 mo.  
 First Quarter 21 0 19 mo.

Various Phenomena: rises sets MOON'S PLACE. High tide Low tide

			H. M.	H. M.		H. M.	H. M.		
1 Mon	Moon eclipsed visible.	4 59 7	1	18	50	9	29		
2 Tues	Moon lowest. Pleasant	4 59 7	1	18	50	9	29		
3 Wed	Transit of ♄ in 1769.	4 58 7	2	8	50	10			
4 Thur	weather.	4 58 7	2	9	42	10	43		
5 Frid	Dr. Worcester died	4 58 7	2	10	31	11	17		
6 Satur	Cloudy and some	4 57 7	3	11	22	11	56		
7 S.	Antares sou. 11h 13m.	4 57 7	3	11	50	E.	29		
8 Mon	Gen. Jackson died	4 57 7	3	10	43	2	19		
9 Tues	S. L. Southard born	4 57 7	3	10	43	2	19		
10 Wed	Victory at Bethel, 1861.	4 56 7	4	1	37	3	20		
11 Thur	St. Barnabas. rain	4 56 7	4	2	25	4	30		
12 Frid	Warm	4 56 7	4	3	25				
13 Satur	and unpleasant.	4 56 7	4	4	35	6			
14 S.	Moon highest.	4 56 7	4	5	40	7	45		
15 Mon	Rain with thunder.	4 56 7	4	6	4	5			
16 Tues	Pres. Polk died, 1849.	4 55 7	5	6	2	5	32		
17 Wed	Bat. Bunker Hill, 1775.	4 55 7	5	6	2	5	20		
18 Thur	Bat. Waterloo, 1815.	4 55 7	5	9	1	11	4		
19 Frid	More pleasant	4 55 7	5	9	50	11	4		
20 Satur	Q. Vict. crowned.	4 55 7	5	10	20	Morn.			
21 S.	Sun ent. ♄. Longest day.	4 55 7	5	10	51	16	2		
22 Mon	Antares sou. 10h 14m.	4 55 7	5	11	10	9	0		
23 Tues	Akenside died, 1775.	4 55 7	5	11	58	1	54		
24 Wed	St. John Baptist.	4 55 7	5	10	43	3	3		
25 Thur	Bish. Gadsden died, 1852.	4 55 7	5	1	31	4	39		
26 Frid	Bat. Fort Moul. 1776.	4 55 7	5	2	33	5	42		
27 Satur	Monmouth Bat. 1778.	4 56 7	4	3	41	6	44		
28 S.	Warm and	4 56 7	4	4	5	7	40		
29 Mon	c lowest. St. Peter.	4 56 7	4	6	0				
30 Tues	dry weather.	4 56 7	4						

7th Month.]

JULY, 1863.

[31 Days]

## MOON'S PHASES.

	D.	H.	M.
Full Moon	1	1	6 mo.
Last Quarter	7	10	17 eve.
New Moon	15	5	3 eve.
First Quarter	23	10	58 mo.
Full Moon	30	7	38 mo.

10. There is a sluice, one end of which is 2 1-2 feet lower than the other, what is the velocity of the stream per second?

11. If a ball fall through a space of 484 feet in 5 1-2 seconds, with what velocity will it strike?

D.	D	Various Phenomena.	Sun		MOON'S PLACE.	Moon		High tide Savannah	
			rises	sets		ri.	sets	H.	M.
M	W		H.M.	H.M.		H.	M.	H.	M.
1	Wed	<i>Sultry weather.</i>	4 56	7 4		rises.		9	7
2	Thur	Vis. of B. V Mary.	4 56	7 4	≈	8 31		9	46
3	Frid	Fort Erie taken, 1814.	4 57	7 3		9 21		10	26
4	Satur	U. S. Dec. Independ. '76.	4 57	7 3	⋈	10 2		11	2
5	S.	Bat. Cheat Mount. '61.	4 58	7 2		10 4		11	42
6	Mon	<i>Rain with loud</i>	4 58	7 2		11 6	E.	24	
7	Tues	<i>thunder and</i>	4 58	7 2	☾	morn.	1	8	
8	Wed	Antares sou 9h 12m.	4 58	7 2		0 32		1	57
9	Thur	Pres. Taylor died 1850.	4 59	7 1	♂	1 25		2	54
10	Frid	Columbus born, 1447.	4 59	7 1		2 17		4	0
11	Satur	J. Q. Adams born, 1767.	4 59	7 1		3 21		5	15
12	S.	Hull invad. Canada, '12.	5 07	0 0	♂	4 0		6	30
13	Mon	<i>vivid lightning.</i>	5 07	0 0		4 38		7	37
14	Tues	Moon highest.	5 16	59	☾	5 0		8	33
15	Wed	Antares sou 8h 44m.	5 16	59		sets.		9	23
16	Thur	Hegira begins 622.	5 26	58	Ω	7 38		10	8
17	Frid	Elbridge Gerry b. 1739.	5 26	58		8 26		10	48
18	Satur	Bat. Bull Run, 1861.	5 36	57	☾	9 15		11	24
19	S	Congress met at Rich'd	5 36	57		10 0		11	59
20	Mon	Vega sou 10h 36m. ['61	5 46	56	≈	10 48	Morn.		
21	Tues	Bat. Manassas 1861.	5 56	55		11 21		0	36
22	Wed	Sun enters Ω.	5 56	55	♏	11 59		1	13
23	Thur	<i>Warm</i>	5 66	54		morn.		1	53
24	Frid	<i>and</i>	5 66	54	↑	0 48		2	34
25	Satur	St. James. <i>dry</i>	5 76	53		1 38		3	35
26	S.	St. Anne <i>weather.</i>	5 86	52		2 40		4	49
27	Mon	Moon lowest.	5 86	52	☾	3 44		6	2
28	Tues	Dog days begin.	5 96	51		4 56		7	8
29	Wed	<i>Rainy and</i>	5 106	50	≈	6 0		8	1
30	Thur	<i>stormy.</i>	5 116	49		rises.		8	45
31	Frid	Fomalhaut sou 2h 13m.	5 116	49	⋈	8 21		9	26

8th Month.] AUGUST 1863. [31 Day]

MOON'S PHASES

12. If a ball strike the ground with a velocity of 56 feet per second, from what height did it fall?  
 13. In what time will a trucker ball, dropped from the top of a steeple 484 feet high, come to the ground?

D. H. M.  
 Last Quarter 6 9 28 mo.  
 New Moon 14 8 27 mo.  
 First Quarter 21 8 12 eve.  
 Full Moon 28 3 19 eve.

D.	D.	Various Phenomena.	Sun		MOON	Moon		Tide
			Rises	Sets		H. M.	H. M.	
M.	W.		H. M.	H. M.	PLACE.	H.	M.	H. M.
1	Satur	Lammac Day.	5 15	6 48		9	10	5
2	S.	Sweltry weather.	5 13	6 47		9	57	10 42
3	Mon	Burr's trial com. 1807.	5 13	6 47		10	47	11 22
4	Tues	Brownstown Bat. 1812.	5 14	6 46		11	21	Even. 5
5	Wed	Fonralhaut sou 1h 53m.	5 15	6 45		11	54	0 47
6	Thur	Bat. Hang. Rock, 1780	5 16	6 44		Morn.	1	30
7	Frid	Rain and thunder.	5 17	6 43		0	41	2 2
8	Satur	Cloudy and	5 17	6 43		1	36	3 36
9	S.	Bat. Oak Hill, 1861.	5 18	6 42		2	25	4 58
10	Mon	Moon highest. windy	5 19	6 41		3	35	6 20
11	Tues	weather.	5 20	6 40		4	45	7
12	Wed	George IV. born, 1762.	5 21	6 39		5	55	8
13	Thur	Now we may	5 22	6 38		6	10	9 1
14	Frid	Altair sou 10h 9m.	5 22	6 38		Sets.	9	50
15	Satur	Bonaparte born, 1769.	5 23	6 37		8	50	10 25
16	S.	Bat. at Camden, 1780.	5 24	6 36		8	50	10 59
17	Mon	expect a heavy	5 25	6 35		9	31	11 32
18	Tues	Altair sou 9h 53m.	5 26	6 34		10	22	Morn.
19	Wed	storm of wind and	5 27	6 33		11	10	0 16
20	Thur	Bat. in Mexico, 1847.	5 28	6 32		11	50	0 36
21	Frid	Wm. IV. born, 1765.	5 29	6 31		Morn.	12	12
22	Satur	enters w. rain.	5 30	6 30		0	40	1 51
23	S.	lowest. [from N. E.	5 31	6 29		1	31	2 44
24	Mon	brightest in the eve.	5 32	6 28		2	21	3 57
25	Tues	Bp. Bowen died 1839.	5 33	6 27		3	25	5 17
26	Wed	Dr. Adam Clark d. 32.	5 34	6 26		4	15	6 32
27	Thur	Fair and mild.	5 35	6 25		5	16	7 31
28	Frid	Hatteras taken 1861.	5 36	6 24		Rises.	8	18
29	Satur	St. John Bap. beheaded	5 37	6 23		7	31	9 2
30	S.	Paley born 1745.	5 38	6 22		8	15	9 41
31	Mon	Bunyan died, 1688.	5 39	6 21		9	0	10 20

9th Month,] ~~1862~~ SEPTEMBER, 1863. [30 Days.

**MOON'S PHASES.**

*D. H. M. E.*  
 Last Quarter 4 11 13 eve.  
 New Moon 12 11 29 eve.  
 First Quarter 20 4 41 mo.  
 Full Moon 27 0 32 mo.

14. If the attraction of the moon raise a tide on the earth five feet high, what will be the height of a tide, raised by the earth on the surface of the moon, under similar circumstances.

D.	D.	of	Various Phenomena.	Sun		MOON'S PLACE.	Moon		H. Tide	
				rises	sets		rises	sets	SAVANNAH.	
M.	W.			H.M.	H.M.		H.	M.	H.	M.
1	Tues		<i>Fair and warm.</i>	5 39	6 21		9 40	11 0		
2	Wed		London burn'd 1666.	5 40	6 20	8	10 20	11 44		
3	Thur		<i>Cloudy, and some</i>	5 41	6 19		11 10	ev. 27		
4	Frid		Altair S. 8 h's 46 min.	5 42	6 18	II	morn.	1 15		
5	Satur		Dog-days end. <i>rain</i>	5 43	6 17		0 2	2 9		
6	S.		Lafayette, born, 1757.	5 44	6 16		0 58	3 20		
7	Mon		highest. <i>with thun-</i>	5 45	6 15	III	1 48	4 46		
8	Tues		Bat. Entaw, 1781. <i>der.</i>	5 46	6 14		2 56	6 10		
9	Wed		Fomalhaut sou. 11h 32m	5 47	6 13	Ω	3 2	7 18		
10	Thur		Bat. Lake Erie, 1813.	5 48	6 12		4 15	8 8		
11	Frid		<i>Cloudy and</i>	5 49	6 11	IV	5 25	8 49		
12	Satur		<i>damp.</i>	5 50	6 10		sets.	9 25		
13	S.		Donati's Comet, 1858.	5 51	6 9	≈	7 0	9 59		
14	Mon		Moscow burn'd, 1812.	5 52	6 8		7 54	10 36		
15	Tues		Surren. of N. Y., 1776.	5 53	6 7	∩	8 43	11 1		
16	Wed		Fomalhaut sou. 11h 4m	5 54	6 6		9 31	11 32		
17	Thur		<i>Changeable and</i>	5 55	6 5	V	10 20	morn.		
18	Frid		<i>unsettled weather.</i>	5 56	6 4		11 5	0 16		
19	Satur		Moon lowest.	5 57	6 3	∪	11 56	0 36		
20	S.		<i>Stormy and boisterous.</i>	5 58	6 2		morn.	1 16		
21	Mon		St. Matthew.	5 59	6 1	≈	0 43	2 5		
22	Tues		<i>Weather may now</i>	6 0	6 0		1 32	3 10		
23	Wed		Sun enters ♈. Days and	6 1	5 59		2 37	4 36		
24	Thur		[nights equal.	6 2	5 58	✕	3 46	5 54		
25	Frid		Fomalhaut sou. 10h 29m	6 3	5 57		4 28	7 1		
26	Satur		<i>be expected fair.</i>	6 4	5 56	∩	5 29	7 49		
27	S.		Arlic lost, 1854.	6 5	5 55		vises.	8 33		
28	Mon		Detroit retaken, 1813.	6 6	5 54		7 21	9 12		
29	Tues		? Sun Interior.	6 7	5 53	8	8 10	9 55		
30	Wed		♂ Sun. St. Jerome.	6 8	5 52		9 0	10 40		

10th Month.]

OCTOBER, 1863.

[31 Days

## MOON'S PHASES.

	D.	H.	M.	
Last Quarter	4	3	27	eve.
New Moon	12	1	27	eve.
First Quarter	19	1	34	eve.
Full Moon	26	0	31	eve.

15. Suppose a vessel 3 feet wide, 5 feet long and 4 feet high, what is the perpendicular pressure on the bottom, it being filled with water to the brim?

D.	D	Various Phenomena.	Sun rises	Sun sets.	MOON'S PLACE.	Moon rises & sets	High tide Savannah
of M.	of W		H. M.	H. M.		H. M. H. M.	H. M.
1	Thur	♂ ♀ <i>Cloudy and</i>	6 9	5 51	☐	9 56	11 24
2	Frid	Major Andre exe. 1780.	6 10	5 50		10 43	E. 11
3	Satur	<i>damp weather.</i>	6 11	5 49		11 36	0 58
4	S.	♄ highest.	6 12	5 48	☿	morn.	1 55
5	Mon	Brainard died, 1747.	6 13	5 47		0 21	3 4
6	Tues	Fomalhaut sou 9h 46m.	6 14	5 46	♋	1 15	4 27
7	Wed	Bat King's Mount. '80.	6 15	5 45		2 14	5 49
8	Thur	<i>Cool nights and</i>	6 15	5 45	☿	3 12	6 55
9	Frid	Battle Schleitz, 1806.	6 16	5 44		4 8	7 44
10	Satur	<i>mornings.</i>	6 17	5 43	☿	4 59	8 25
11	S.	Bahamas discov'd 1492.	6 18	5 42		5 48	8 59
12	Mon	<i>Fair and</i>	6 19	5 41	♋	sets.	9 32
13	Tues	<i>mild weather.</i>	6 20	5 40		6 21	10 3
14	Wed	Fomalhaut sou 9h 14m.	6 21	5 39	♄	7 22	10 34
15	Thur	Bank Panic, 1857.	6 22	5 38		8 28	11 6
16	Frid	<i>Raining and</i>	6 23	5 37	☿	9 36	11 37
17	Satur	Burgoyne surrend 1777.	6 24	5 36		10 42	Morn.
18	S.	St. Luke. <i>stormy.</i>	6 25	5 35		11 50	0 16
19	Mon	Cornwallis sur 1781.	6 26	5 34	☿	morn.	0 50
20	Tues	<i>Windy and cool.</i>	6 27	5 33		0 42	1 35
21	Wed	Fomalhaut sou 8h 47m.	6 28	5 32	♋	1 36	2 34
22	Thur	<i>Now we may expect</i>	6 29	5 31		2 39	3 53
23	Frid	☼ enters ♋.	6 30	5 30		3 21	5 9
24	Satur	<i>frost.</i>	6 31	5 29	☿	4 28	6 21
25	S.	♄ * sou 1h 23m.	6 32	5 28		5 41	7 16
26	Mon	<i>Changeable and</i>	6 33	5 27	☿	rises.	8 4
27	Tues	Fomalhaut sou 8h 23m.	6 34	5 26		7 1	8 49
28	Wed	St. Sim. and St. Jude.	6 35	5 25		7 58	9 35
29	Thur	<i>unsettled.</i>	6 36	5 24	☐	8 42	10 21
30	Frid	♄ highest.	6 37	5 23		9 31	11 7
31	Satur	♄ ☼ <i>weather.</i>	6 38	5 22	☿	10 14	11 54

MOON'S PHASES.

New Moon 11 2 36 mo.  
First Quarter 17 11 29 eve.  
Full Moon 25 3 29 mo.

16. With what velocity will an iron ball begin to descend, if raised 3,000 miles above the earth's surface?

17. How high must a ball be raised, to lose half its weight?

D.	M.	W.	Various Phenomena.	MOON'S PLACE.		Moon's Rises.	Moon's Sets.	H. Tide.
				H. M.	H. M.	H. M.	H. M.	

1	S.		All Saint's day.	6	39	5	21	11 53 eve.	45
2	Mon		All Souls' day.	6	40	5	20	11 57	38
3	Tues		<i>Fair and Cool.</i>	6	40	5	20	noon	2 38
4	Wed		♀ Brightest in the morn.	6	41	5	19	0 43	51
5	Thur		Gunpowder plot, 1605.	6	42	5	18	1 37	5
6	Frid		Leonard.	6	43	5	17	2 30	15
7	Satur		Bat. Belmont, 1861.	6	44	5	16	3 24	7 11
8	S.		Transit of ♄, 1848.	6	45	5	15	4 31	7 54
9	Mon		<i>windy, and Disp.</i>	6	46	5	14	5 21	8 33
10	Tues		Milton died, 1674.	6	46	5	14	6 12	9 8
11	Wed		☉ Eclipsed, invisible.	6	47	5	13	7 19	19 42
12	Thur		<i>Frosty, and</i>	6	48	5	12	8 31	10 13
13	Frid		Moon lowest.	6	49	5	11	9 39	10 45
14	Satur		Chas. Carroll d., 1832.	6	49	5	11	10 36	11 18
15	S.		Witherspoon d., 1794.	6	50	5	10	11 51	11 52
16	Mon		Tea des't'd Boston, 1773.	6	51	5	9	12 59	morn.
17	Tues		7 Stars sou. 11h 19m.	6	52	5	8	morn	0 31
18	Wed		<i>Windy, and a Cold</i>	6	52	5	8	0 58	1 15
19	Thur		7 Stars sou. 11h 41m.	6	53	5	7	1 10	2 7
20	Frid		<i>Rain may be expected.</i>	6	54	5	6	2 21	3 9
21	Satur		Sun enters ♈	6	54	5	6	3 36	4 25
22	S.		<i>Fair, and</i>	6	55	5	5	4 48	5 35
23	Mon		Bomb. Ft. Pickens, '61.	6	56	5	4	5 35	6 42
24	Tues		<i>Cold Winds.</i>	6	56	5	4	6 25	7 38
25	Wed		Moon Eclipsed, visible.	6	57	5	3	rises.	8 27
26	Thur		Q. Isabella died, 1502.	6	58	5	2	6 10	9 19
27	Frid		Moon highest.	6	58	5	2	7 01	10 9
28	Satur		<i>Cloudy Weather.</i>	6	59	5	1	7 58	10 57
29	S.		Advent Sunday.	6	59	5	1	8 43	11 42
30	Mon		St. Andrew's Day.	7	0	5	0	9 39	eve. 29



12th Month.]

DECEMBER, 1863.

[31 Days.

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	3	3	53 mo.
New Moon	10	2	43 eve.
First Quarter	17	10	39 mo.
Full Moon	24	9	0 eve.

18. If the velocity of a stream of water spouting through the bulk head of a mill be 16 feet per second, what head of water is there?

D.	D.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon ri.&sts	H. Tide SAVAM-NAH.
of M	of W		H.M.	H.M.		H. M.	H. M.
1	Tues	Days 10 hours long.	7 05	0		10 25	1 18
2	Wed	7 Stars souths 10h 50m	7 14	59	☾	11 21	2 8
3	Thur	<i>Fair and Frosty.</i>	7 14	59		morn.	3 4
4	Frid	Sun fast. clock 9m 19s.	7 24	58	☾	0 15	4 12
5	Satur	<i>Rainy and Cool.</i>	7 24	58		1 25	5 18
6	S.	Van Buren born, 1782.	7 24	58	☾	2 35	6 24
7	Mon	<i>Windy and</i>	7 34	57		3 48	7 20
8	Tues	7 Stars souths 10h 26m.	7 34	57	☾	4 59	8 3
9	Wed	<i>unpleasant Weather.</i>	7 34	57		5 58	8 43
10	Thur	Moon lowest.	7 34	57	☾	sets.	9 21
11	Frid	Gt. Fire Charleston, '61.	7 44	56		5 56	9 56
12	Satur	<i>Cold enough</i>	7 44	56	☾	6 40	10 31
13	S.	Bat. Valley Mount., 1861	7 44	56		7 28	11 5
14	Mon	Washington died, 1799.	7 44	56		8 45	11 40
15	Tues	<i>for Ice.</i>	7 44	56	☾	9 40	morn.
16	Wed	Gt. Fire N. York, 1835.	7 54	55		10 53	0 17
17	Thur	<i>Rainy and unpleasant</i>	7 54	55	☾	morn.	1 0
18	Frid	Sun fast. clock 2m 51s.	7 54	55		0 2	1 50
19	Satur	<i>Weather.</i>	7 54	55		1 12	2 59
20	S.	S. Carolina seced. '60.	7 54	55	☾	2 21	4 25
21	Mon	Sun ent. ☾ Shortest day.	7 54	55		3 42	5 35
22	Tues	Land. of Pilgrims, 1620.	7 54	55	☾	4 56	6 42
23	Wed	Sir I. Newton born, 1642	7 54	55		6 2	7 38
24	Thur	Sun & clock agree.	7 54	55		rises.	8 27
25	Frid	CHRISTMAS DAY. <i>Clear</i>	7 54	55	☾	5 58	9 10
26	Satur	☾ highest. St. Stephen.	7 54	55		6 48	10 9
27	S.	St. John Evang. <i>and</i>	7 44	56	☾	7 37	10 57
28	Mon	Innocents. <i>cold weather</i>	7 44	56		8 26	11 42
29	Tues	The Java taken, 1812.	7 44	56	☾	9 13	eve. 26
30	Wed	7 Stars souths 9h 0m.	7 44	56		10 14	1 19
31	Thur	<i>for this Climate.</i>	7 44	56	☾	11 12	2 10

## GOVERNMENT OF THE CONFEDERATE STATES.

EXECUTIVE CABINET.—Jefferson Davis, of Miss., President; Alexander H. Stephens, of Ga., Vice-President; J. P. Benjamin, of La., Secretary of State; C. G. Memminger, of S. C., Sec. Treasury; Jas. A. Seddon, of Va., Sec. War; R. S. Mallory, Sec. Navy; John H. Reagan, Postmaster-General; A. T. Watts, Attorney General.

## GOVERNMENT OF GEORGIA.

Capitol—MILLEDGEVILLE.

Area—58,000 Square Miles; - - Total Population—1,082,797  
Slaves—467,461.

EXECUTIVE AND CABINET.—Joseph E. Brown, Governor; H. H. Waters and J. L. Campbell, Secretaries Ex. Depart't; N. C. Barnett, Sec. State; Peterson Thweatt, Comp. Gen'l; John Jones, Treasurer; H. C. Wayne, Adj't and Insp'r Gen'l.

## REPRESENTATION IN CONFEDERATE CONGRESS.

B. H. Hill, } SENATORS. } H. V. Johnson.  
REPRESENTATIVES.

1st District,	Julian Hartridge,	6th District,	W. W. Clark,
2d do	C. J. Munnerlyn,	7th do	R. P. Trippe,
3d do	Hines Holt,	8th do	L. J. Gartrell,
4th do	A. H. Kenan,	9th do	Hardy Strickland,
5th do	D. W. Lewis,	10th do	A. R. Wright.

## GOVERNMENT OF ALABAMA,

Capitol—MONTGOMERY.

Area—50,722 Square Miles; - Total Population—935,917;  
Slaves—435,473.

John Gill Shorter, Governor; P. H. Britton, Secretary of State; W. J. Green, Comptroller; D. B. Graham, Treasurer.

Clément C. Clay, | SENATORS. | William L. Yancy.

## GOVERNMENT OF MISSISSIPPI,

Capitol—JACKSON.

Area—47,156 Square Miles; - Total Population—887,158;  
Slaves—479,677.

John J. Pettus, Governor; Charles A. Brongher, Secretary of State; A. J. Gillespie, Auditor of Public Accounts, M. D. Haynes, State Treasurer; T. J. Wharton, Attorney General.

Albert Brown, | SENATORS. | James Phelan.

## GOVERNMENT OF LOUISIANA,

Capitol—BATON ROUGE.

Area—41,436 Square Miles; - Total Population—666,431;  
Slaves—312,186.

Thomas O. Moore, Governor; H. M. Hyams, Lieut. Governor; P. D. Harely, Secretary of State; Thomas J. Semmes, Attorney General.

# TIMES AND PLACES OF HOLDING Superior and Inferior Courts of Georgia, FOR 1883

COUNTIES	SUPERIOR COURTS	INFERIOR COURTS	COUNTIES
Appling.....	1st Monday Mar. and Sept.	1st Monday June and Dec.	Richmond.....
Baker.....	2d do May and Nov.	Tues aft 1st Mon Jan July.	Newtown.....
Baldwin.....	4th do Feb. and Aug.	3d Monday May and Nov.	Milledgeville.....
Banks.....	Thurs af 1st Mon Apl & Oct.	1st do Feb. and Aug.	
Berrien.....	Monday after Super. Court in Irwin.	2d do Jan and July.	Nashville.....
Bibb.....	2d Monday May and Nov.	1st do Feb. and Aug.	
Brooks.....	2d do Dec and June.	3d do Feb. and Aug.	Macon.....
Bryan.....	Monday after 3d Mon Apl and Mon aft Liberty Court Nov.	4th do Jan. and June.	Eden.....
Bulloch.....	Friday after 3d Mon Mar & Friday after 4th Mon Oct.	1st do Feb. and July.	Statesboro.....
Burke.....	3d Monday May and Nov.	1st do Jan. and July.	Waynesboro.....
Butts.....	2d do Mar and Sept.	2d do Jan. and July.	Jackson.....
Calhoun.....	4th do May and Nov.	3d do May and Nov.	Morgan.....
Camden.....	3d do April and Oct.	1st do Jan. and June.	Jefferson.....
Campbell.....	2d do Feb. and Aug.	2d do June and Dec.	Campbellton.....
Carroll.....	1st do April and Oct.	4th do June and Dec.	Carrollton.....
Cass.....	2d do Mar and Sept.	4th do May and Nov.	Cassville.....
Catoosa.....	2d do May and Nov.	4th do Jan. and July.	Ringgold.....
Chatham.....	2d do Jan. and May.	3d do Feb. and July.	Savannah.....
Chattahoochee.....	3d do May and Nov.	2d do Feb. and Aug.	Cussetta.....
Chattanooga.....	1st do Mar. and Sept.	4th do May and Nov.	Summersville.....
Cherokee.....	1st do do do	2d do June and Dec.	Traders' Hill.....
Charlton.....	2d do April and Oct.	1st do Feb. and Sept.	Watkinsville.....
Clarke.....	1st do Feb. 2d Mo. Au	4th do April and Oct.	Fort Gaines.....
Clay.....	4th do Mar. and Sept.	4th do Jan. and July.	Jonesboro.....
Clayton.....	1st do May and Nov.	1st do Feb. and July.	Marietta.....
Clinch.....	4th do Mar. and Sept.	3d do Jan. and July.	Douglas.....
Cobb.....	3d do do do	3d do June and Dec.	Appling.....
Coffee.....	2d do do do	1st do May and Nov.	
Columbia.....	1st do do do	1st do Feb. and July.	
Colquitt.....	last do in May, and	1st do Feb. and July.	Moultrie.....
Coweta.....	Monday after 4th Mon Nov.	1st do June and Dec.	Newnan.....
Crawford.....	1st do Mar and Sept.	1st do Jan. and July.	Knoxville.....
Dade.....	4th do May and Nov.	1st do Mar. and Sept.	Dawson.....
Dawson.....	2d do Feb. and Aug.	1st do June and Dec.	Dawsonville.....
Decatur.....	4th do April and Oct.	2d do Jan. and July.	Bainbridge.....
DeKalb.....	4th do do do	2d do Jan. and July.	Decatur.....
Dooley.....	1st do do do	3d do June and Dec.	Vienna.....
Dougherty.....	1st do June and Dec.	1st do Mar. and Sept.	Albany.....
Early.....	1st do April and Oct.	2d do Jan. and Dec.	Blakely.....
Echo's.....	Mon aft 4th Mon Mar Sept.	Mon aft 1st Court in Clinch	
Effingham.....	Mon aft 4th Mon Mar. and	2d Monday Feb. and July.	Springfield.....
Elbert.....	2d Monday Mar and Sept.	3d do Jan. and July.	Elberton.....
Emanuel.....	1st do April and Oct.	1st do do do	Paris.....
Fannin.....	2d do May and Oct.	2d do do do	Morgan.....
Fayette.....	2d do Mar. and Sept.	2d do Jan. and June.	Fayetteville.....
Floyd.....	2d do Jan. & 1st Mo July	2d do April and Oct.	Rome.....
Forsyth.....	3d do Feb. and Aug.	3d do do do	Cumming.....
Franklin.....	1st do April and Oct.	4th do Jan. and July.	Cartersville.....
Fulton.....	1st do do do	3d do June and Dec.	Atlanta.....
Gilmer.....	1st do May and Oct.	2d do Jan. 1st Mon July.	Blizay.....
Glascock.....	3d do Feb. and Aug.	4th do May and Nov.	Gibson.....
Glynn.....	4th do April and Oct.	2d do Jan. and June.	Brunswick.....
Greene.....	2d do Mar. and Sept.	2d do June and Dec.	Greensboro.....
Gordon.....	1st do April and Oct.	4th do Jan. and July.	Calhoun.....
Gwinnett.....	1st do Mar & 2d Sept.	1st do June and Dec.	Lawrenceville.....
Habersham.....	Thurs af 4th Mon Mar Sept.	2d do Jan. and July.	Clarksville.....
Hall.....	2d Monday Mar. and Sept.	4th do do do	Gainesville.....
Hancock.....	2d do April and Oct.	1st do Feb. and Aug.	Sparta.....
Haralson.....	3d do do do	2d do Jan. and July.	Tallapoosa.....

# Superior and Inferior Courts of Georgia.

## Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS.	Co Towns.
Harris.....	2d Monday April and Oct	2d Monday Jan and July	Hamilton
Hart.....	3d do March and Sep	3d do Jan and Dec	Hartwell
Heard.....	3d do do and Oct	2d do Jan and July	Franklin
Henry.....	3d do April and Sept	4th do Feb and Aug	McDonough
Houston.....	4th do do do	4th do Jan and July	Perry
Irwins.....	Thurs at Sup Court Telc	4th do Jan 1st Mo July	Irwinville
Jackson.....	4th Monday Feb and Aug	2d do Jan and July	Jefferson
Jasper.....	4th do April and Oct	4th do do do	Monticello
Jefferson.....	2d do May and Nov	2d do do do	Louisville
Johnson.....	4th do March and Sept	2d do April and Oct	Clinton
Jones.....	2d do April and Oct	4th do Jan and July	Dubin
Laurens.....	2d do do do	1st do Jan and Dec	Starksville
Lee.....	4th do do and Sept	4th do Jan and July	Richville
Liberty.....	3d Mo Apr Mo 2d 4 Mo Nov	2d do Jan and July	Lincolnton
Lincoln.....	4th Monday April and Oct	1st do Feb and July	Trouville
Lowndes.....	1st do do do	1st do Feb and Aug	Dahlonega
Lumpkin.....	1st do Feb and Aug	3d do June and Dec	Oglethorpe
Macbride.....	3d do March and Sept	1st do Feb and July	Danelsville
Madison.....	1st do do do	2d do Jan and July	Buena Vista
Macpherson.....	1st do do do	2d do May and Nov	Darien
McIntosh.....	Thurs aft 2d Mo April and Thursday aft 1st Mo Nov	1st do Jan and June	Greenville
Meriwether.....	3d Monday Feb and Aug	4th do April and Oct	Colquitt
Miller.....	2d do April and Oct	4th do March and Sept	Alpharetta
Milton.....	4th do March and Sept	4th do June and Dec	Camilla
Mitchell.....	2d do May and Nov	4th do Feb and Aug	Forsyth
Monroe.....	4th do April and Aug	2d do June and Dec	Wt Vernon
Montgomery.....	Thurs aft 1st Mo March and Thurs aft 2d Mo Oct	1st do Feb and Aug	Madison
Morgan.....	1st do do March and Sept	1st do June and Dec	Spring Place
Murray.....	2d do April and Oct	3d do Jan and July	Columbus
Newton.....	4th do May and Sept	2d do March and Sept	Covington
Oglethorpe.....	2d do March and Sept	4th do June and Dec	Lexington
Paulding.....	2d do April and Oct	4th do Jan and June	Dallas
Pickens.....	4th do Feb and Aug	2d do June and Dec	Jasper
Pierce.....	2d do March and Sept	3d do Jan and July	Blackshear
Pike.....	To before 1st Mon Mar Sept	2d do June and Dec	Zebulon
Pikeland.....	1st Mo Apr & Thurs 1st Oct	1st do do do	Edar Town
Polk.....	4th Monday April and Oct	4th do Jan 1st Mo July	Lawsonville
Pulaski.....	3d do do do	4th do June and Dec	Latonton
Putnam.....	4th do May and Sept	3d do Feb and Aug	Georgetown
Quitman.....	3d do May and Nov	2d do Jan and July	Clayton
Rabun.....	4th do March and Sept	1st do Feb and Aug	Angusta
Randolph.....	1st Monday May and Nov	1st do June and Dec	Blairville
Richmond.....	2d do April and Oct	4th do Jan and July	Sylvania
Schley.....	4th do April and Oct	4th do Feb and Aug	Linupkin
Scriven.....	1st do May and Nov	3d do Jan and July	Americus
Spalding.....	2d do May and Nov	3d do June and Dec	Talbotton
Stewart.....	3d do April and Oct	1st do Feb and Aug	Crawfordville
Sumter.....	2d do do do	2d do Feb and Aug	Reefsville
Talbot.....	2d do March and Sept	2d do do do	Butler
Tallapoosa.....	4th do Feb and Aug	1st do do do	Jacksonville
Tattnall.....	3d do March and Sept	2d do Jan and July	Thomessville
Taylor.....	1st do April and Oct	2d do June and Dec	Hiwassee
Terrell.....	4th do May and Nov	4th do Feb and Aug	LaGrange
Telfair.....	Frid after Easter Week	4th do Jan and July	Marion
Thomas.....	1st Monday June and Dec	4th do June and Dec	Blairville
Town.....	Thurs aft 3d Mo May & Oct	3d do Feb and Aug	Thomaston
Troup.....	2d Monday May and Nov	1st do May and Dec	LaFayette
Twiggs.....	4th do March and Sept	4th do May and Nov	Monroe
Union.....	2d do May and Oct	4th do June and Dec	Wareboro
Upson.....	1st do May and Nov	1st do Jan and July	
Walker.....	Mo before 1st Mo Mar Sept	1st do do do	
Walton.....	2 & 3 Mo Feb & 3 Mo Aug	2d do do do	
Ware.....	2d Monday Mar and Sept	2d do do do	

# Superior and Inferior Courts of Georgia.

Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS,	Co. TOWNS.
Warren .....	1st Monday April and Oct	2d Monday Feb and Aug	Warrenton
Washington...	2d do April and Sept	4th do Jan and July	Sandersville
Wayne .....	Th 3d Mon April Oct	2d do do do	Waynesville
Webster .....	2d Monday March and Sept	2d do June and Dec	Preston
White .....	Thu at 3d Mon Mar & Sept	4th do June and Dec	Mt Yonah
Wilcox .....	4th do April and Oct	2d do Jan and July	Abbeville
Wilkes .....	4th do March and Sept	1st do May and Nov	Washington
Wilkinson .....	1st do April and Oct	2d do Jan and July	Irwinton
Whitfield .....	4th do do do	1st do do do	Dalton
Worth .....	3d do do do	1st do June and Dec	Isabella

## SUPERIOR COURTS—CIRCUITS,

JUDGES AND SOLICITORS.

BRUNSWICK CIRCUIT—Appling, Camden, Charlton, Clinch, Coffee, Echols, Glynn, Pierce, Ware, Wayne. . . W. M. Sessions, Judge; W. H. Dasher, Solicitor.

PATAULA CIRCUIT—Chattahoochee, Clay, Early, Miller, Quitman, Randolph, Stewart, Webster. . . . . Judge: F. D. Bailey, Solicitor.

TALLAPOOSA CIRCUIT—Campbell, Carroll, Coweta, Floyd, Haralson, Heard, Paulding, Polk. . . D. F. Hammond, Judge; Herbert Fielder, Solicitor.

NORTHERN CIRCUIT—Elbert, Glascock, Hancock, Hart, Lincoln, Madison, Oglethorpe, Taliaferro, Warren, Wilkes. . . Thomas W Thomas, Judge; J C Burch, Solicitor.

EASTERN CIRCUIT—Bryan, Bulloch, Chatham, Elifingham, Liberty, McIntosh, Montgomery, Tatnall. . . W B Fleming, Judge; C C Wilson, Solicitor.

MIDDLE CIRCUIT—Burke, Columbia, Emanuel, Jefferson, Johnson, Richmond, Scriven, Washington. . . W W Holt, Judge; W. W. Montgomery, Attorney General.

WESTERN CIRCUIT—Clarke, Franklin, Gwinnett, Habersham, Hall Jackson, Rabun, Walton, WhiteBanks. . . N L Hutchins, Judge; S P Thumond, Solicitor.

OCMULGEE CIRCUIT—Baldwin, Greene, Jones, Jasper, Morgan, Putnam, Wilkinson. . . Iverson L Harris, Judge; Wm A Lofton, Solicitor.

SOUTHERN CIRCUIT—Berrien, Brooks, Colquitt, Laurens, Lowndes, Irwin, Pulaski, Telfair, Thomas, Wilcox. . . A H Hansell, Judge; S B Spencer, Solicitor.

FLINT CIRCUIT—Butts, Henry, Monroe, Newton, Pike, Spalding, Upson. . . E G. Cabiness, Judge; A. D. Hammond, Solicitor.

CHEROKEE CIRCUIT—Cass, Catoosa, Chattooga, Dade, Gordon, Murray, Whitfield, Walker. . . W. Crook, Judge; J. W. A. Johnson, Solicitor.

COWETA CIRCUIT—Clayton, DeKalb, Fayette, Fulton, Meriwether, Troup. . . O. A. Bull, Judge; Thomas J. Cooper, Solicitor.

SOUTH-WESTERN CIRCUIT—Baker, Calhoun, Decatur, Dougherty, Lee, Mitchell, Sumter. . . A A Allen, Judge; W E Smith, Solicitor.

CHATTACOOCHIE CIRCUIT—Harris, Marion, Muscogee, Schley, Talbot, Taylor. . . F H Worrell, Judge; J Peabody, Solicitor.

MACON CIRCUIT—Bibb, Crawford, Dooley, Houston, Macon, Twiggs, Worth. . . Henry G Lamar, Judge; Theodorick W Mountfort, Solicitor.

BLUE RIDGE CIRCUIT—Cherokee, Cobb, Dawson, Fannin, Forsyth, Gilmer, Lumpkin, Milton, Pickens, Ows, Union. . . George D Rice, Judge; Wm Phillips, Solicitor.

## SUPREME COURT OF GEORGIA.

Officers. [Elected by the Legislature, for the term of 6 years.] Salary  
Joseph H. Lumpkin, of Athens, Judge. \$2,500  
Charles J. Jenkins, of Richmond, do 2,500  
Thos. J. Lyon, of Fulton do 2,500

First District.—Composed of the Eastern, Middle and Brunswick Judicial Circuits at Savannah, on the second Monday's in January and June in each year.

Second District.—Composed of the Macon, South-western Chattahoochee and Pataula Judicial Circuits, at Macon—on 4th Monday in January and June in each year.

Third District.—Composed of the Flint Coweta, Blue Ridge, Cherokee and Tallapoosa Judicial Circuits, at Atlanta, on 4th Mon. in March and 2d Mon. in Aug. ea. yr.

Fourth District.—Composed of the Western and Northern Judicial Circuits, at Athens—on the 4th Monday in May and 4th Monday in November in each year.

Fifth District.—Composed of the Ocmulgee and Southern Judicial Circuits, at Milledgeville, on the second Mondays in May and November in each year.

## DOMESTIC RECIPES.

**PORK, BEEF OR MUTTON—HOW TO PRESERVE.**—Take four gallons, coarse sugar, one and a half pounds; saltpetre and common salt eight pounds; put the whole into a clean pot and let it boil, carefully taking off the scum; and when no more scum will rise, pour it into the vessel you intend to keep it in, and when cold, put in your meat. This is all that is necessary, if you head up your cask; but if kept as a house pickle in an open vessel, when fresh, is put in weekly, or from time to time; then in that case, the pickle should be reboiled every six weeks.

**CURING HAMS AND BACON.**—Use equal quantities of common Soda and Saltpetre—one ounce and a half of each to the fourteen pounds of Ham or Bacon, using the usual quantity of salt. The Soda prevents that hardness in the lean of the Bacon which is so often found, and keeps it quite mellow all through, besides being a preventive of rust.

**SUBSTITUTE FOR SODA.** A lady sends the following, which we publish for the information of house-keepers:

To the ashes of corn cobs add a little boiling water. After allowing it to stand for a few minutes, pour off the lye, which can be used at once with an acid [sour milk, or vinegar.] It makes the bread as light almost as Soda.

**TO SAVE PORK.**—Mr. John H. Taylor, gives through the Columbus Enquirer the following recipe for saving pork in an economical manner. He says several gentlemen have successfully practiced it the past year in Harris county.

“To 5 gallons of water add 7 pounds of salt, 1 pint of syrup, and 1 teaspoonful of pounded saltpetre. After the pork is cooled in the usual way, pack in barrels and cover with the above mixture—let it remain four or five weeks, and hang and smoke in the usual manner.”

Thus twenty pounds of salt are made to save one thousand pounds of pork.

**CONFEDERATE DYE—TO MAKE A BEAUTIFUL BLUE.**—Take elder berries, mash them and press out the juice. To two gallons of juice add about one ounce of copperas and two ounces of alum. Dip the thread in this thoroughly, and air, and the dye is set.

**SAUSAGE MEAT.**—After several years experience, I have found the following recipe to be the best for preparing sausage meat I have ever seen:

To 50 lbs. of chopped meat, add 1½ lbs of salt, 4 oz. of good black pepper, 14 table spoonfulls of sage.

**HOW TO MAKE TALLOW CANDLES HARD.**—Take the leaf of the Prickly Pear, say four or five cut up and boil with one pound of tallow, and your candles will surprise you for bardness.

**TO PRESERVE BUTTER.**—Take two quarts of best common salt, one ounce of sugar, one ounce saltpetre, all finely pulverized and dry; then thoroughly mix the whole together, and take one ounce of the mixture for each pound of butter, work well into the mass and close it up for use.

It should be remembered that butter thus prepared requires to stand a month before it is ready for use. If it is sooner opened the salt is not sufficiently blended with it, and sometimes the coolness of the saltpetre will be perceived, which totally disappears afterwards.

Butter being prepared for immediate use, had better be put up without the saltpetre, but the sugar in the proportions above given, may be used with great advantage, as the sugar gives butter an extra good flavor, and has a tendency to keep it sweet, and prevent its becoming rancid.

**PRACTICAL DIRECTIONS FOR MAKING BREAD.**—As most of the ingredients for raising yeast powders, &c., are becoming scarce, I think a good recipe for housekeepers not out of the way.

Take a medium sized Irish potatoes, pare and cut them very thin, and put them on to cook with about three times as much water as will cover them. When done, mash them fine in the same water, then add flour enough to make a thick batter. Remember the batter must be put in while the water is boiling hot, let it then cool off until it is lukewarm, and then add a little piece of sour dough, say a teaspoonful, to start with. Of course, after the housekeeper has once made this yeast, she can always keep a little of the old to add to the new. If kept in a warm place, it will be fit for use in about six hours. Add plenty of this to your flour, and you will have the lightest and best tasted bread that you would wish for.

**PRESERVING BUTTER.**—A patent has been secured by W. O. Clark, of London, for the following method of preserving butter. The butter is first well beaten in the usual manner after churning, then spread between clean cloths, and submitted to severe pressure for removing whey and water. It is now completely enveloped or covered with clean white paper, which is coated on both sides with a preparation of the white of eggs, in which fifteen grains of salt is used for each egg. This prepared paper is first dried, then heated before a fire, or with a hot iron, just prior to wrapping it round the butter. It is stated that butter may be kept perfectly sweet without any salt for two years, when thus treated, if placed in a cool, dry cellar. The submitting of butter to pressure as described is a good plan, and one which we recommend to our farmers. They can easily practice it with a small cheese press.

**STARCH OF HOME MANUFACTURE.**—Take a peck of unground wheat of the best quality pick and soak it carefully. Next put in a tub, pour on sufficient clear, soft water to cover it, and then set it in the sun. Be sure to change the water every day, keeping it in the sun as much as possible, or an equally warm place in the house, should the weather prove unfavorable. When all the grains of wheat have become quite soft, rub it well in your hands, and separate it from the husks, which must be thrown into another tub. Let the soft wheat settle in a mass, and then pour off the water, and put on fresh; stir it well, and let it settle again. Repeat this every day, till the last water comes off clear and colorless. Then pour the water finally off. Take the starch out of the tub, collect it in a thin bag, and hang it for a few days in the sun; after which spread on dishes or a sheet to dry.

**SALTING AND SMOKING MEAT.**—The following method, which requires only forty-eight hours, may be adopted for salting and smoking meat: A quantity of salt, pure, equal to the common salt that would be required for the meat in the usual way, must be dissolved in water. Into this the meat to be smoked must be put, and kept over a slow fire till all the water is evaporated. It must then be hung up in a thick smoke for twenty-four hours; when it will be found equal in flavor to the best Hamburg smoked meat that has been kept several weeks in salt, as red throughout and equally firm.

**INDIAN SLAP-JACKS.**—Scald a quart of Indian meal—when lukewarm, stir in a half a pint of flour, half a tea-cup of yeast and a little salt. When light, fry them in just fat enough to prevent their sticking to the frying pan. Another method of making them, which is very nice, is to turn boiling milk or water on the Indian meal in the proportion of a quart of the former to a pint of the latter, stir in three table spoonfuls of flour, three eggs well beaten, and a couple of tea-spoonfuls of salt.

## GARDENER'S CHRONICLE.

**JANUARY.**—Sow peas, spinach, lettuce, cabbage, carrots, salsafy, parsnips, turnips, asparagus. Plant horse radish, Irish potatoes, cabbages and lettuce.

**FEBRUARY.**—Sow peas, spinach, lettuce, cabbage, carrots, salsafy, parsnips, turnips, thyme, sage, and other plants. Plant early cabbages and lettuce.

*Remarks.*—The same varieties of peas may be sown in March for the autumn. The principal crop of beans and carrots should now be sown. The cabbages of pinach should be sown in small quantities every ten days, as it soon runs out.

**MARCH.**—Sow carrots, beets, Swiss chard, salsafy, cabbages, parsnips, leeks, tomatoes, peppers, Guinea squashes, cucumbers, okra, and beans, cushaws, sewee beans, New Zealand pumpkins. Transplant tomatoes, peppers, cucumbers, cabbages and lettuce.

*Remarks.*—All the above should be got in at as early a period as possible. Carrots should now be sown in hills, and from English seed. Lettuce should be sown where it is sown. New Zealand pumpkins should be sown in hills, three feet apart in rows. Radishes should be sown every three weeks. All Irish potatoes should be planted in this month.

**APRIL.**—Sow carrots, beets, salsafy, turnips, cabbages, cauliflowers, brocoli, tomatoes, peppers, radishes, lettuce, celery, leeks. Plant okra, snap beans, squashes, cucumbers, cushaws, melons. Transplant cabbages, tomatoes, peppers, Guinea squashes. Pick out celery.

*Remarks.*—The sowing of the main crop of carrots for summer and autumn, ought not to be delayed longer than this month, as they will be easily killed when up. The seed should be from Europe, or they will run to seed in the fall. Cucumbers, squashes, and melons, do not succeed well if delayed until now, but a few may be sown.

**MAY.**—Sow cabbages, savoy, carrots, beets, turnips, cauliflowers, brocoli, celery, radishes, plant snap beans. Transplant cabbages. Pick out celery.

*Remarks.*—There is little probability of either beets, parsnips, carrots, or turnips succeeding at this season, especially the last; yet if wanted, a few may be ventured—under very favorable circumstances, they may succeed. If carrots be sown, the ground should be shaded and kept moist, and this continued to the plants sometime after they are up, or they will be killed by the hot sun.

**JUNE.**—Sow cauliflowers, brocoli, cabbages, carrots, tomatoes. Plant snap beans, transplants celery, cabbages, leeks. Pick out cauliflowers, brocoli, and celery.

*Remarks.*—This month is generally very dry and hot, and all the crops that are sown now, must be protected from the sun: most of them should have been sown in May, and it is only in case of failure or omission that they should now be sown: the summer crop is considered bad for the sowing of seeds generally.

**JULY.**—Sow early Dutch turnips, carrots, parsnips, cabbages, cauliflowers, brocoli, endive, radishes, spinach. Plant snap beans, Irish potatoes, melons. Transplant cabbages, celery, cauliflowers, brocoli, tomatoes, and leeks.

*Remarks.*—A few only of carrots, parsnips, spinach, or radishes, should be sown, as it is not very probable that they will succeed, unless the weather is favorable. The sun for some days of the month, while young. The early Dutch turnips should be sown now, as the main crop of the month, in small quantities. The Irish potatoes will be sown in October, as the summer crop will furnish a supply when the spring-grown crop is killed by frost.

**AUGUST.**—Sow peas, early Dutch turnips, other varieties of turnips, cabbages, cauliflowers, brocoli, black Spanish cabbages, lettuce, and endive. Plant snap beans. Transplant cauliflowers, brocoli, celery, cabbages, endive.

*Remarks.*—Not much can be expected of the summer crop, as the weather will be much crippled by the high winds and rain which we usually have in August. A few may be ventured. The beets and spinach are liable to be killed by the worm which destroy their leaves: should they escape these they will be small.

**SEPTEMBER.**—Sow early Dutch turnips, other varieties of turnips, ruta baga, beets, Swiss chard, mangle wurzle, carrots, parsnips, lettuce, spinach, cabbages, onions, radishes, endive. Plant snap beans. Transplant ruta baga, cabbages, cauliflowers, brocoli, celery, lettuce, leeks, endive.

**OCTOBER.**—Sow cabbages, lettuce, carrots, beets, turnips, radishes, spinach, salsafy, parsnips, ruta baga. Transplant cabbages, cauliflowers, brocoli, onions, lettuce, leeks, and endive.

**NOVEMBER.**—Sow peas, cabbages, radishes, carrots, spinach, turnips, parsnips, lettuce, beets, salsafy. Plant mazarin and Windsor beans. Transplant cabbages, lettuce, onions, and leeks.

**DECEMBER.**—Sow peas, spinach, radishes, lettuce, cabbage, salsafy, carrots, beets, parsnips, Plant Irish Potatoes, mazarin and Windsor beans. Transplant cabbages, lettuce and onions.



JAS. M.

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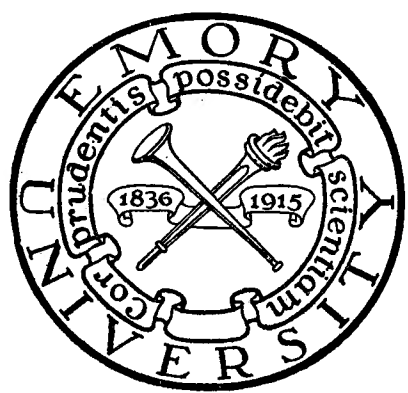
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Maps of the Seat of War every where.

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